

Title (en)

PHASE VARIATION RECORDING MATERIAL AND INFORMATION RECORDING MEDIUM

Title (de)

AUFZEICHNUNGSMATERIAL MIT PHASENÄNDERUNG UND INFORMATIONSAUFZEICHNUNGSMEDIUM

Title (fr)

MATERIAU D'ENREGISTREMENT A VARIATION DE PHASE ET SUPPORT D'ENREGISTREMENT D'INFORMATIONS

Publication

EP 1607232 A4 20090415 (EN)

Application

EP 04722966 A 20040324

Priority

- JP 2004004002 W 20040324
- JP 2003079834 A 20030324

Abstract (en)

[origin: US2005202200A1] A phase-change recording material on which high speed recording/erasing is possible, which has excellent recording characteristics, which has a high storage stability of recording signals and which is excellent in the repeated recording durability, and an information recording medium using the above material are provided. A phase-change recording material characterized by containing as the main component a composition represented by {(Sb_{1-x}Ge_x)_{1-y}In_y_{1-z-w}M_zTe_w} wherein x, y, z and w are numbers satisfying $0.001 \leq x \leq 0.3$, $0 \leq y \leq 0.4$, $0 \leq z \leq 0.2$ and $0 \leq w \leq 0.1$, and M is at least one element selected from lanthanoids, provided that z and w are not 0 at the same time.

IPC 1-7

B41M 5/26; **G11B 7/24**

IPC 8 full level

G11B 7/243 (2013.01); **G11B 7/0045** (2006.01); **G11B 7/24** (2013.01); **G11B 7/258** (2013.01); **H01L 45/00** (2006.01)

CPC (source: EP US)

G11B 7/243 (2013.01 - EP US); **G11B 7/00456** (2013.01 - EP US); **G11B 7/24** (2013.01 - EP US); **G11B 7/258** (2013.01 - EP US); **G11B 2007/2431** (2013.01 - EP US); **G11B 2007/24312** (2013.01 - EP US); **G11B 2007/24314** (2013.01 - EP US); **G11B 2007/24316** (2013.01 - EP US); **H10N 70/026** (2023.02 - EP US); **H10N 70/231** (2023.02 - EP US); **H10N 70/826** (2023.02 - EP US); **H10N 70/8413** (2023.02 - EP US); **H10N 70/884** (2023.02 - EP US); **Y10T 428/21** (2015.01 - EP US)

Citation (search report)

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- [Y] US 2002146643 A1 20021010 - SHINGAI HIROSHI [JP], et al
- See references of WO 2004085168A1

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WO2007105662A1; US8075974B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

US 2005202200 A1 20050915; **US 7081289 B2 20060725**; CN 1756667 A 20060405; CN 1756667 B 20110608; EP 1607232 A1 20051221; EP 1607232 A4 20090415; TW 200423115 A 20041101; TW 200639854 A 20061116; TW I300926 B 20080911; TW I354284 B 20111211; WO 2004085168 A1 20041007

DOCDB simple family (application)

US 11311905 A 20050425; CN 200480005588 A 20040324; EP 04722966 A 20040324; JP 2004004002 W 20040324; TW 93107968 A 20040324; TW 95128198 A 20040324